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- (51) International Patent Classification<sup>7</sup>: A23L 1/308, 1/29 (74) Agents: PARLET, Nickki, L. et al.; 625 Cleveland Avenue, Dept. 108140 DS1, Columbus, OH 43215 (US).
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- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.
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(54) Title: POLYMER CONTROLLED INDUCED VISCOSITY FIBER SYSTEM AND USES THEREOF

(57) Abstract: The present invention relates generally to a method of blunting the postprandial glycemic response in a human by feeding an induced viscosity fiber system together with lightly hydrolyzed starch. The invention also relates to an induced viscosity fiber system and the liquid products that incorporate the induced viscosity fiber system. Further, the invention relates to a method of incorporating soluble fiber into a liquid product without the typical negative organoleptic or physical stability issues. The invention also relates to a method of inducing the feeling of fullness and satiety by feeding the induced viscosity fiber system.

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A02

# INTERNATIONAL SEARCH REPORT

Internationa llication No  
PCT/US 02/16413

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A23L1/308 A23L1/29

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, FSTA, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 292 723 A (AUDRY FRANCIS ET AL) 8 March 1994 (1994-03-08) cited in the application column 1, line 38 - line 68 column 3, paragraph 2 - paragraph 4 column 4, line 39 - column 5, line 6 column 5; example 1 ---	1-4, 6-11, 13-25
X	WO 96 25054 A (MONTE WOODROW C ;BOATWRIGHT DOYLE W (US)) 22 August 1996 (1996-08-22)  page 13; example 3 page 17; example 9 page 28 -page 31; claims 1,3,4,6,7,13 --- -/--	1-4,6, 14-18, 21,24

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

22 January 2003

Date of mailing of the international search report

04/02/2003

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

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PCT/US 02/16413

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 221 836 B1 (BEALE PAXTON K ET AL) 24 April 2001 (2001-04-24) column 13 -column 14; table VIII column 15, paragraph 1 column 16, line 32 - line 35 -----	1-4,6, 16,17
X	US 5 470 839 A (LAUGHLIN PHILIP ET AL) 28 November 1995 (1995-11-28) cited in the application column 3, paragraphs 2-7 column 6; example column 9 -column 10; claims 1-4,6,9 -----	1-4,6-9, 13,16

# INTERNATIONAL SEARCH REPORT

Int'l application No.  
PCT/US 02/16413

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 7-12 & 20 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: (1,3,4,6-11,13-27)partly, 5, 12, 28  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: (1,3,4,6-11,13-27)partly, 5, 12, 28

Present claim 1 relates to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds mentioned in claim 2.

Present claims 5, 12 & 28 relate to a product/method defined by reference to a desirable characteristic or property, namely an in vivo viscosity. The claims cover all products/methods having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such products/methods. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the product/method by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

## INTERNATIONAL SEARCH REPORT

ation on patent family members

Intern plication No

PCT/US 02/16413

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